ASA PERFORATORS

ACOUSTIC CEMENT BOND LOG

CO. HS RESOURCES, INC.
WELL HSR-POE 12-21A
FLD WATTENBERG
CTY WELD
STATE CO.
FILING NO

COMPANY HS RESOURCES, INC.
WELL HSR-POE 12-21A
FIELD WATTENBERG
COUNTY WELD STATE CO.

LOCATION:
NW/SW
SEC 21 TWP 3N RGE 68W

OTHER SERVICES
API # 05-123-18915

PERMANENT DATUM G.L.	ELEVATION 4975	K.B. 4985
LOG MEAS. FROM K.B.	10 FT. ABOVE PERM DATUM	D.F. 4984
DRILLING MEASURED FROM K.B.		G.L. 4975

DATE & TIME LOGGED	9/21/2000	TYPE FLUID	WATER
RUN NO.	1	DENSITY	1.1
DEPTH-DRILLER	8035	FLUID LEVEL	3200
DEPTH-LOGGER	7988	CEM TOP EST	L/H=7480
BTM LOGGED INTERVAL	7983	EQUIP-LOC	GREELEY 1
TOP LOGGED INTERVAL	6736	RECORDED BY	G. ZACK
MAX. TEMP. F.	285	WITNESSED BY	C. CLARK

CEMENTING DATA	SURFACE	PROTECTION	PRODUCTION	LINER
DATE/TIME CEMENTED				
PRIMARY SQUEEZE				
EXP. COMP. STRENGTH				
CEMENT VOLUME				
CEMENT TYPE/WEIGHT				
FORMULATION				
MUD TYPE/WEIGHT				

RUN	BOREHOLE RECORD			CASING RECORD			
NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO
1	12.25	SURF		8 5/8	24	SURF	
2	7 7/8		7580	4 1/2	11.6	SURF	7580
3	3 7/8	7580	8035	2 7/8	6.5	7480	T.D.

FOLD HERE

SERVICE TICKET NO.: API SERIAL NO.: PGM VERSION:

THE WELL NAME, LOCATION, CEMENTING DATA, & BOREHOLE DESCRIPTION FURNISHED BY CLIENT

CEMENTING DATA

CEMENT PUMPED BBL/MIN @ PSI
PRECEDING FLUID VOLUME BBL
RETURNS? FULL PARTIAL NONE
PIPE ROTATED/RECIP. DURING PUMPING? YES NO
AFTER PLUG DOWN? YES NO
PLUG BUMPED? YES NO
PLUG LANDING PRESSURE: PSI
PRESSURE HELD PSI HOURS AFTER PUMPING

CENTRALIZERS
/JOINT FROM TO
/JOINT FROM TO
/JOINT FROM TO

SCRATCHERS
/JOINT FROM TO
/JOINT FROM TO
/JOINT FROM TO

EQUIPMENT DATA

GAMMA	NEUTRON	ACOUSTIC
RUN NO.	RUN NO.	RUN NO.
SERIAL NO.	SERIAL NO.	SERIAL NO.
MODEL NO.	MODEL NO.	MODEL NO.
DIAMETER	DIAMETER	NO OF CENT.
DETECTOR MODEL NO.	LOG TYPE	SPACING
TYPE	SOURCE TYPE	
LENGTH	SERIAL NO.	
DISTANCE TO SOURCE	STRENGTH	

LOGGING DATA

GENERAL					GAMMA		NEUTRON		ACOUSTIC	
RUN	DEPTHS		WELLHEAD	SPEED	SCALE		SCALE		SCALE	
NO.	FROM	TO	PRESSURE	FT/MIN	L	R	L	R	L	R

REMARKS THANK YOU! 970-353-5118

TOOL DIAGRAM

TOOL TYPE :
2 1/8" CCL, GR, SNGL RCVR CBL

TOOL MODEL : 2108-1RX-TX

SCANNED
INTO RECALL

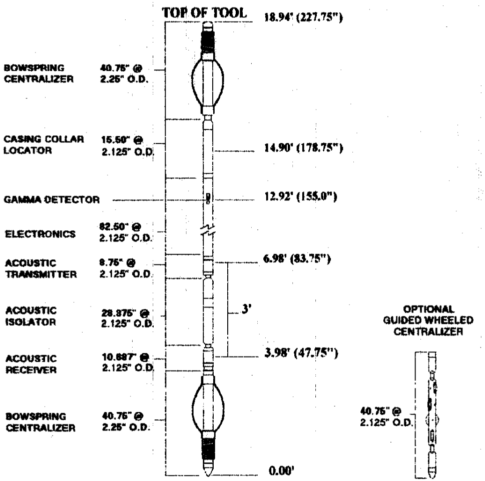
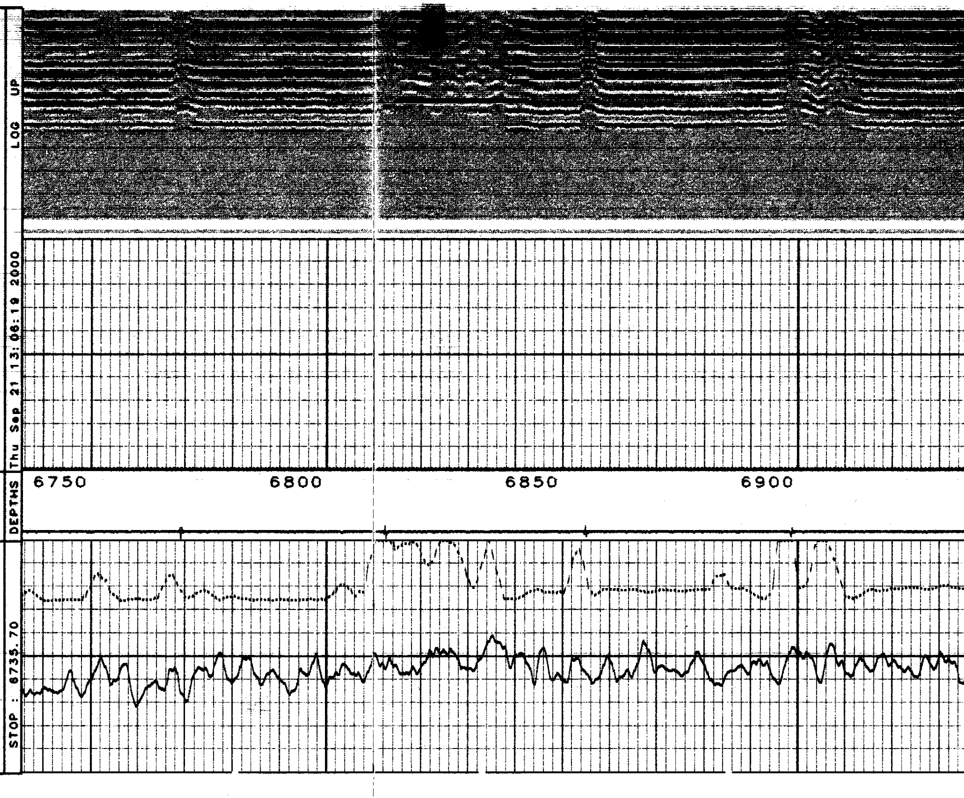

TOP OF TOOL
18.94' (227.75")
BOWSPRING CENTRALIZER
40.75" @ 2.25" O.D.
CASING COLLAR LOCATOR
15.50" @ 2.125" O.D.
14.90' (178.75")
GAMMA DETECTOR
12.92' (155.0")
ELECTRONICS
82.50" @ 2.125" O.D.
ACOUSTIC TRANSMITTER
8.75" @ 2.125" O.D
6.98' (83.75")
ACOUSTIC ISOLATOR
28.875" @ 2.125" O.D.
3'
ACOUSTIC RECEIVER
10.887" @ 2.125" O.D
3.98' (47.75")
BOWSPRING CENTRALIZER
40.75" @ 2.25" O.D.
0.00'
OPTIONAL GUIDED WHEELED CENTRALIZER
40.75" @ 2.125" O.D.

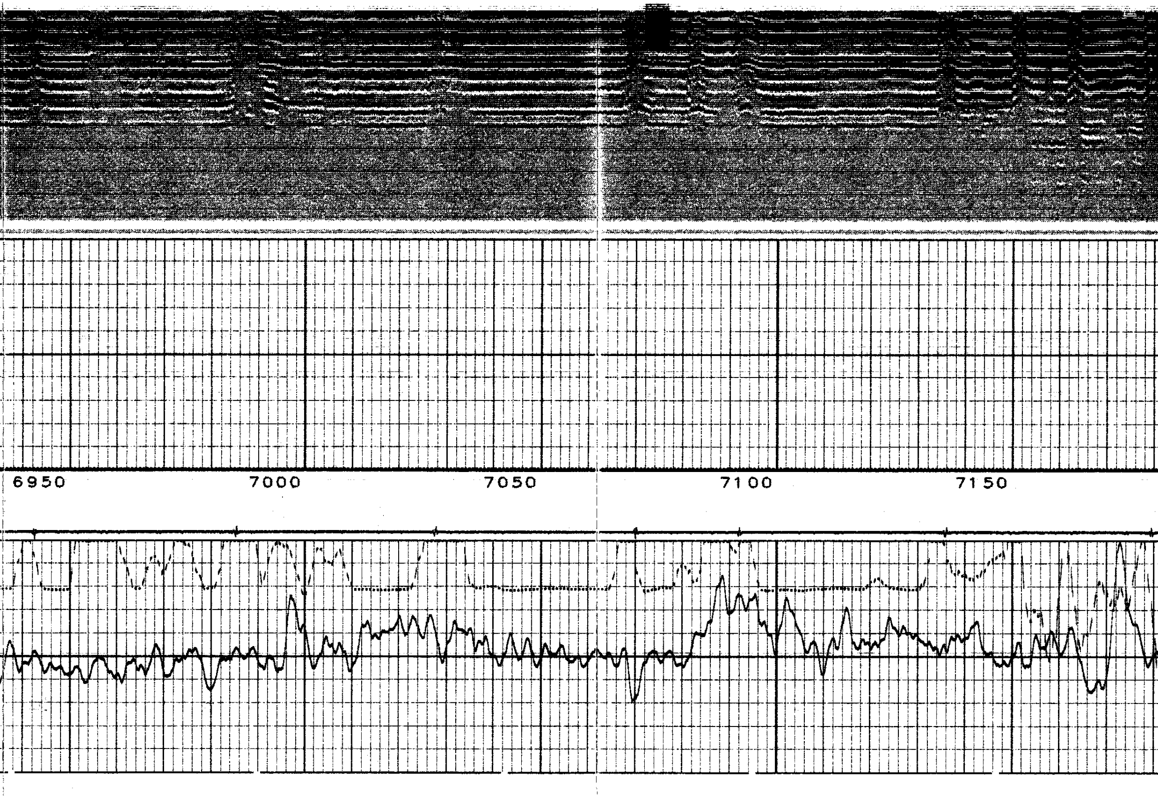
CHART SCALING		
0.00	GAMMA	200.00
200.00	API	400.00
200.00	TIME	700.00
	USECS	

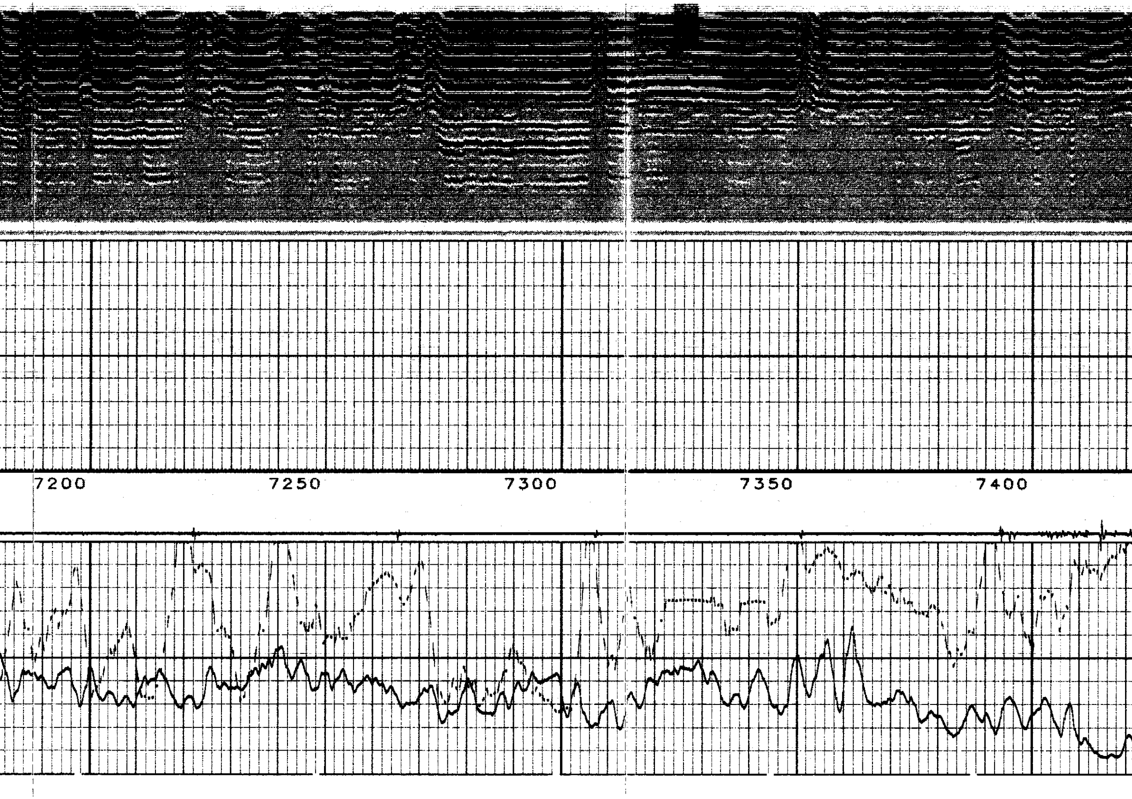
CHART SCALING		
0.00	AMP	1000.00
	MVS	
0.00	X5_AMP	1000.00
	MVS	

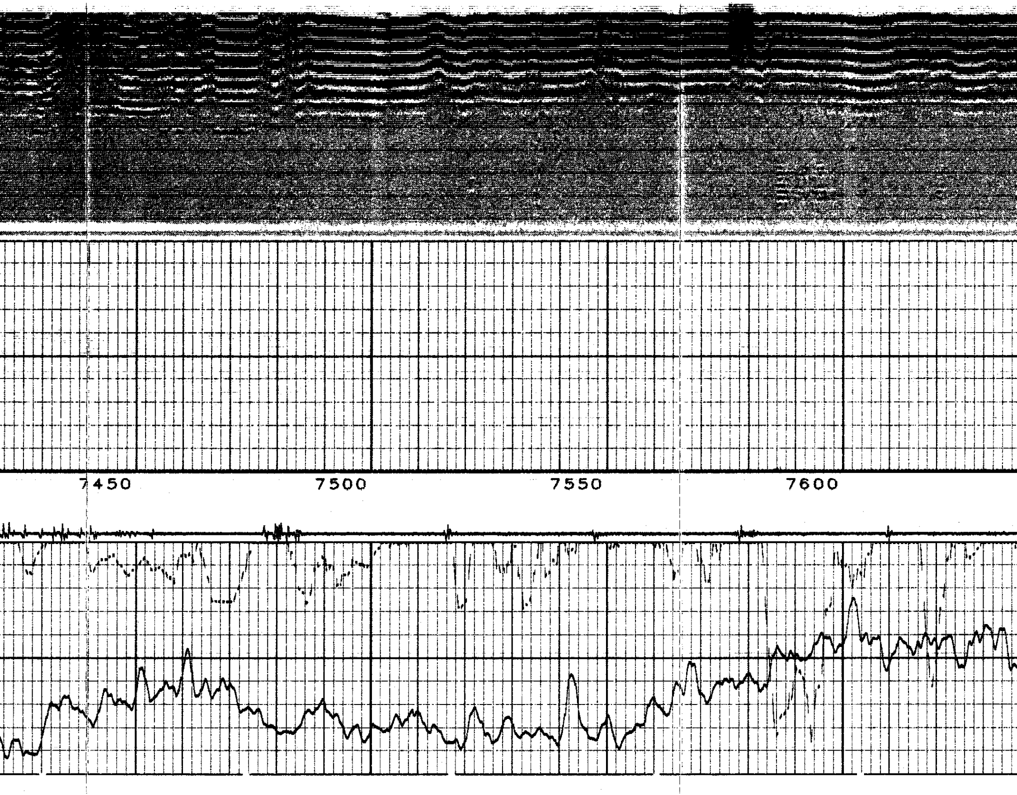
100 1100

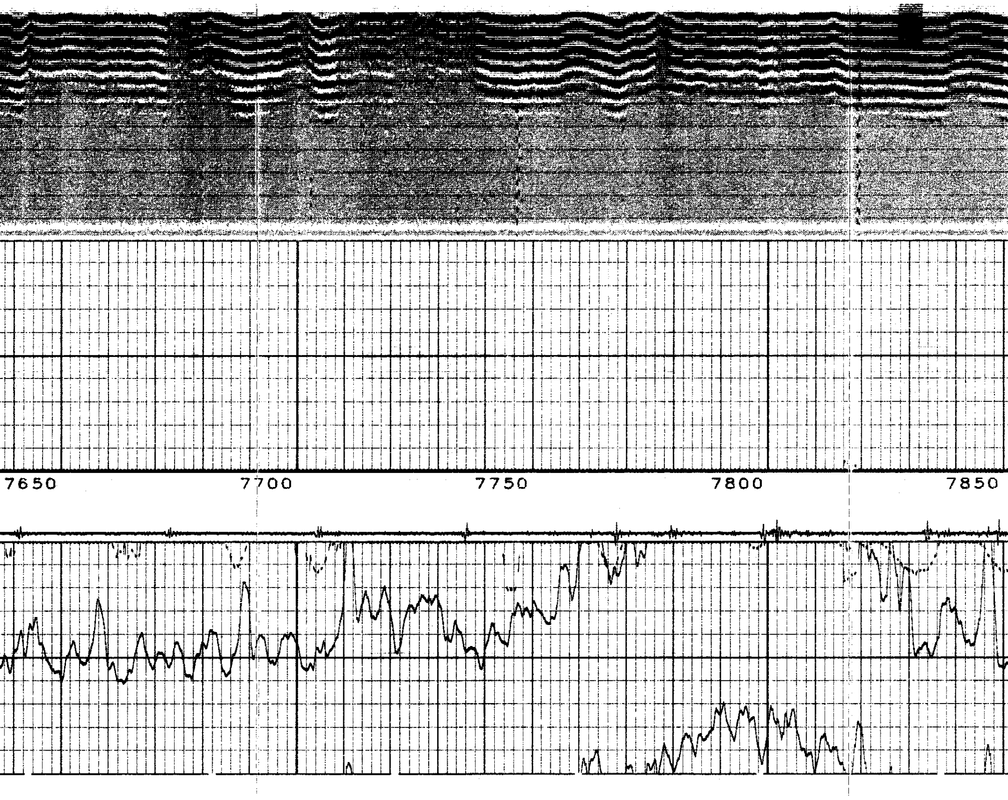
MICROSECONDS











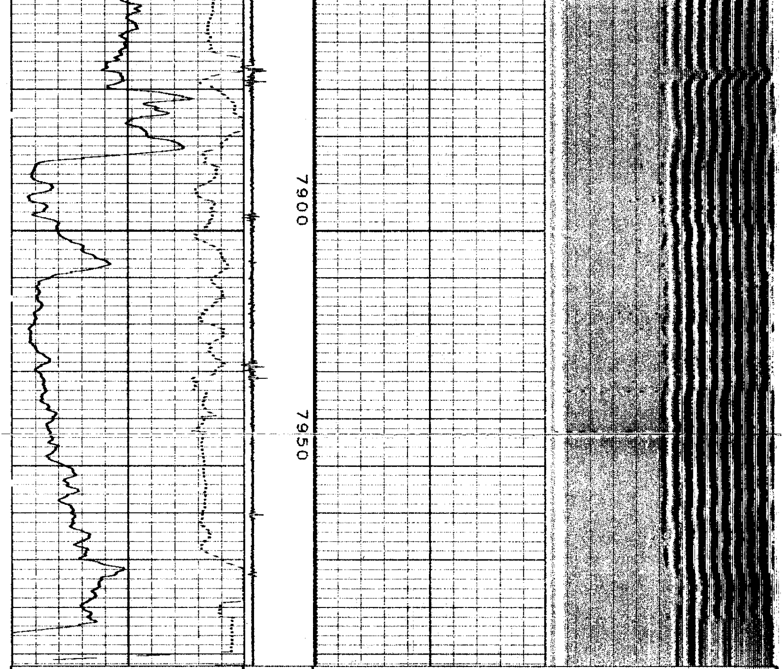


CHART SCALING			DEPTHS	CHART SCALING			
0.00	GAMMA	200.00		0.00	AMP	1000.00	
200.00	API	400.00			MVS		
200.00	TIME	700.00		0.00	X5_AMP	1000.00	
	USECS				MVS		
							100 1100
							MICROSECONDS
START DEPTH:	7992.26		DEPTHS	Thu Sep 21 12:38:25 2000			LOG UP